

Sample # 172-112

Manufacturer

Length (mm)-

Butt:

Ave. Weight (gm):

Date Assayed	19 APR 1972	8 MAY 1972	18 MAY 1972	13 JUN 1972
Run #	5	4	1	3
Port #	5	4	9	14
CLC #	1	2	1	2
Filter #	15	64	9	14
# Cig. Smoked	5	5	5	5

$$\frac{(W_t - W_b) \times 1000}{\# \text{Cig. Smoked}} = \text{mg TPM(wet)}$$

or Holder
Wts (gm)

Wt. after	32.6567	33.0260	31.6260	32.0914	34.3253
Wt. before	32.4969	32.8745	31.4656	31.9540	34.1930

$$\frac{W_t - W_b}{\text{Slope} \times \# \text{Cig. Smoked}} = \text{mg H}_2\text{O}$$

ature Peak
ghts (mm)

H ₂ O	104.0	92.0	138.0	80.3	102.3
Internal St'd.	126.3	116.0	141.3	152.3	158.0
Corr'n factor	-0.0506	-0.1664	-0.3016	-0.0805	-0.0801
Slope	0.0491	0.0467	0.0385	0.0415	0.0354

$$\frac{1.059 \left[A_{259} - \frac{1}{2}(A_{236} + A_{282}) \right] \times \text{d.f.}}{34.3 \times \# \text{Cig. Smoked}} = \text{mg}$$

orbance
alues

A ₂₅₉	1.671	0.609	0.679	0.566	0.573
A ₂₃₆	0.236	0.220	0.226	0.189	0.195
A ₂₈₂	0.143	0.131	0.130	0.111	0.107
Dilution factor	625	625	625	625	625

Results

TPM (wet)	32.0	30.3	32.1	27.5	28.5
H ₂ O	3.15	2.83	3.51	2.15	3.21
Nicotine	1.86	1.67	1.93	1.61	1.63
TPM (dry)	27.0	25.8	26.7	23.7	23.7
	115.6	42.7	42.0	47.1	42.8

Name

Manufacturer

Length (mm)-

Butt:

Ave. Weight (gm):

	Date Assayed	6 APR 1972	19 APR 1972	8 MAY 1972	18 MAY 1972	6 JUN 1972
Run #		3	1	1	5	1
Port #		11	1	4	13	20
GLC #		1	2	2	2	1
Filter #		31	1	4	53	120
# Cig. Smoked		5	5	5	5	5

$$\frac{(W_a - W_b) \times 1000}{\# \text{Cig. Smoked}} = \text{mg TPM (wet)}$$

 er Holder
 Wts (gm)

Wt. after	32.0536	31.7906	31.5569	33.1350	33.1269
Wt. before	31.9478	31.6904	31.4556	32.9286	33.0271

$$\frac{H_2O/I \text{ Std} \times \text{c.f.}}{\text{Slope} \times \# \text{Cig. Smoked}} = \text{mg } H_2O$$

 ture Peak
 Wts (gm)

H ₂ O	92.7	103.5	119.3	118.7	153.7
Internal St'd.	125.0	108.3	123.5	114.3	230.7
Corr'n factor	-0.0506	-0.1667	-0.3512	-0.1812	-0.0084
Slope	0.0491	0.0442	0.0386	0.0407	0.0362

$$\frac{1.059 [A_{259} - \frac{1}{2}(A_{236} + A_{282})] \times \text{c.f.}}{34.3 \times \# \text{Cig. Smoked}} = \text{mg}$$

 rbalance
 lues

A ₂₅₉	0.463	0.420	0.420	0.427	0.430
A ₂₃₆	0.153	0.140	0.146	0.133	0.135
A ₂₈₂	0.091	0.084	0.087	0.078	0.077
Dilution factor	500	500	500	500	500

Results

TPM (wet)	21.2	20.0	20.3	21.3	20.0
H ₂ O	2.81	3.57	3.19	3.98	3.63
Nicotine	1.05	0.95	0.94	0.99	1.00
TPM (dry)	17.3	15.5	16.2	16.3	15.4
Puff Count	43.8	38.9	38.3	37.7	39.7

Cigarette Smoke Analysis

Sample # 172-69

Name

Manufacturer

Length (mm)-

Butt:

Ave. Weight (gm):

Date Assayed	5 APR 1972	19 APR 1972	8 MAY 1972	17 MAY 1972	1972
Run #	5	4	4	1	3
Port #	15	7	10	12	16
GLC #	2	2	1		2
Filter #	75	67	70	112	36
# Cig. Smoked	5	5	5	5	5

$$\frac{(W - W_0) \times 1000}{\# \text{Cig. Smoked}} = \text{mg TPM (wet)}$$

Filter Holder
Weights (gm)

Wt. after	32.7101	32.8940	32.3041	34.2747	31.2000
Wt. before	32.5825	32.7746	32.1930	34.1635	31.0695

$$\frac{B_2O / 1.5 \text{td} + \text{c.f.}}{\text{Slope} \times \# \text{Cig. Smoked}} = \text{mg H}_2\text{O}$$

Moisture Peak
Heights (mm)

H ₂ O	85.0	82.0	96.7	70.0	150.0
Internal St'd.	127.5	116.2	140.0	146.0	165.3
Corr'n factor	-0.1672	-0.1667	-0.3216	-0.0467	-0.0801
Slope	0.0453	0.0442	0.0382	0.0427	0.0354

$$\frac{1.059 [A_{259} - \frac{1}{2}(A_{236} + A_{282})] \times \text{c.f.}}{34.3 \times \# \text{Cig. Smoked}} = \text{mg}$$

Absorbance
Values

A ₂₅₉	0.673	0.637	0.616	0.609	0.660
A ₂₃₆	0.732	0.200	0.213	0.181	0.212
A ₂₈₂	0.135	0.114	0.113	0.102	0.112
Dilution factor	500	500	500	500	500

Results

TPM (wet)	24.3	23.9	21.7	22.1	27.1
H ₂ O	2.21	2.44	2.01	2.03	4.67
Nicotine	1.51	1.47	1.39	1.44	1.54
TPM (dry)	20.6	20.0	18.3	18.6	20.9
Puff Count	49.4	47.8	47.7	50.2	42.0